

Abstract

- Title:** Comparison of respiratory function in school age children
- Objectives:** The main aims of this study were to estimate influence of age, anthropometric measures, and a type of physical activity on forced vital capacity (FVC), and additionally to create reference values of FVC for children aged 5 to 10 years.
- Methods:** 281 girls and 345 boys were enrolled in this cross-sectional study. Data were obtained during the sport propagation event called Sportacek 2016. Descriptive statistics and regression models were carried out in data processing.
- Results:** Statistically significant influence of body height as well as influence of physical activity in boys' gymnastics on FVC was found.
- Keywords:** respiration, dependence, body height, forced vital capacity